

Ss. CYRIL AND METHODIUS UNIVERSITY IN SKOPJE  
FACULTY OF VETERINARY MEDICINE - SKOPJE



Joint meeting  
5<sup>th</sup> International Vet-Istanbul Group Congress  
&  
8<sup>th</sup> International Scientific Meeting  
Days of veterinary medicine - 2018

# BOOK OF ABSTRACTS

23-27 September 2018  
Ohrid, R. of Macedonia

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OF THE JOINT MEETING  
5<sup>th</sup> INTERNATIONAL VET-ISTANBUL GROUP CONGRESS AND  
8<sup>th</sup> INTERNATIONAL SCIENTIFIC MEETING  
DAYS OF VETERINARY MEDICINE - 2018**

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**FOREWORD**

Dear Colleagues,

It is my great pleasure to welcome you to the 5<sup>th</sup> International Veterinary Days of veterinary medicine - 2018, Ohrid, 23<sup>th</sup> to 27<sup>th</sup> September.

This year, in cooperation with the Faculty of Veterinary Medicine, we'll be organizing an academic cooperation (VEE) partners, by the public good.

The Faculty of Veterinary Medicine is together outstanding experts in the field of research, veterinary researchers, veterinary doctoral students, offering the following topics: animal health, food safety and food safety.

The program for the 5<sup>th</sup> International Veterinary Days will retain its usual popular format, including student papers and posters, authors, whose research will be presented at the International Scientific Meeting, selecting 117 papers from the 5<sup>th</sup> International Veterinary Days followed by two poster presentations by invited speakers for the 5<sup>th</sup> International Veterinary Days talks.

A successful conference is a place, where ideas about veterinary medicine are debated, which will open new horizons for enjoyment.

On the behalf of the Faculty of Veterinary Medicine in Macedonia.

We look forward to welcoming you to the 5<sup>th</sup> International Veterinary Days.

12.50-13.00	<i>Effects of Black Cumin addition to rations on the performance parameters in laying hens</i> <b>Tahir Balevi</b> , Uçkun Sait Uçan, Oğuzhan Kahraman, Abdullah Özbilgin
13.00-14.00	Lunch
<b>Moderators: Prof. Zehra Hajrulai-Musliu and Prof. Ali Aydin</b>	
<b>Scientific papers – Oral presentations</b>	
14.00-14.10	<i>Evaluation Of The Quechers Method And Gas Chromatography–Mass Spectrometry For The Analysis Fipronil And Its Metabolites In Egg Products</i> <b>Aleksandra Tasic</b> , Ksenija Nestic, Tijana Mitrovic, Nebojsa Vukovic
14.10-14.20	<i>Optimization And Validation Of Lc-Ms/Ms Method After Quechers Sample Preparation For Determination Of Fipronil And Its Metabolites In Eggs And Chicken Muscle</i> <b>Elizabeta Dimitrieska-Stojkovič</b> , Dushica Koceva, Aleksandra Angeleska, Biljana Stojanovska-Dimzosa, Gordana Ilievska, Risto Uzunov, Stefan Jovanov, Zehra Hajrulai-Musliu, Dean Jankuloski
14.20-14.30	<i>Determination Of B-Agonist Residues In Liver Using Lc-Ms/Ms Method</i> <b>Risto Uzunov</b> , Zehra Hajrulai-Musliu, Velimir Stojkovski, Elizabeta Dimitrieska-Stojkovic, Biljana Stojanovska-Dimzosa, Stefan Jovanov, Dean Jankuloski
14.30-14.40	<i>The Evaluation Of Histamine Levels In Carp (Cyprinus Carpio) Samples Collected From Afyonkarahisar, Turkey</i> <b>Acaroz Ulas</b>
14.40-14.50	<i>Detection Of Nitroimidazole Residues In Chicken Muscle Tissue And Egg Samples Using Competitive Enzyme Immunoassay</i> <b>Dušica Koceva</b> , Elizabeta Dimitrieska-Stojkovič, Gordana Ilievska, Zehra Hajrulai-Musliu, Dean Jankuloski
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15.00-15.10	<i>Determination Of Total Phosphorus Content In Complete Dog Foods And Its Part In The Nutritional Balance</i> <b>Ana Angelovska</b> , Radmila Chrcheva Nikolovska, Zehra Hajrulai Musliu

## Parallel Session II

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STUDENT SESSION

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10.00-10.30	Coffee break

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### CHANGES OF FATTY ACIDS COMPOSITION DURING YOGURT PROCESSING

Mila Arapcheska<sup>1\*</sup>, Zehra Hajrulai – Musliu<sup>2</sup>, Jovanka Tuteska<sup>3</sup>,  
Risto Uzunov<sup>2</sup>, Maja Dimovski<sup>1</sup>

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Yogurt is popular fermented milk product, with health benefits and therapeutic properties. Milk fat plays an important role in fermented beverage manufacturing. It affects taste perception and the final volume of curd, while also limiting syneresis. The main objective of this work was to analyze the changes of fatty acids composition during processing of fresh cow milk into yogurt. The samples were taken from different phases of yogurt processing (after homogenization, pasteurization, inoculation with yogurt cultures, incubation period and final product) and compared with chemical and fatty acid composition of fresh milk. The following parameters were examined: fat content, dry matter content and acidity. Changes of fatty acids composition of samples during the examined periods of yogurt processing and fresh milk samples were analyzed by gas chromatography. A total of 17 fatty acids were analyzed. The obtained results have shown significant differences ( $p < 0.05$ ) in the fat content and acidity. Fatty acids compositions of samples from different phases of yogurt processing compared with fresh milk sample have shown significant difference in content of: C4:0; C10:0; C12:0; C14:1; C17:0; C18:2n6c and C18:3n3. The decrease of contents of most of analyzed fatty acids was noted during different phases of yogurt processing. The changes in fatty acids composition have significant effect in organoleptic and nutritional qualities of milk products, and because of this it is important to evaluate the level of these compounds in fermented milk beverage - yogurt.

**Key words:** fatty acids composition, yogurt processing, gas chromatography